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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 1 of 3

Complete if Known

Application Number	10/072,604
Filing Date	02/08/2002
First Named Inventor	Felix Franks et al.
Art Unit	1651
Examiner Name	Unknown

Attorney Docket Number 0022.11

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
SC	AA	US- 125,714	04/1872	Allen	
SC	AB	US- 586,504	07/1897	Maresch	
SC	AC	US- 1,855,591	04/26/1932	Leo Wallerstein	
SC	AD	US- 2,648,609	08/1953	Wurster	
SC	AE	US- 3,303,721	08/1965	Grevenstak et al.	
SC	AF	US- 3,300,474	01/1967	Flodin et al.	
SC	AG	US- 3,312,803	04/1967	Dame Jr. et al.	
SC	AH	US- 3,413,198	11/1968	Deutsch	
SC	AI	US- 3,456,050	07/1969	Rieckmann et al.	
SC	AJ	US- 3,480,468	11/1969	Carletti et al.	
SC	AK	US- 3,540,927	11/1970	Niim et al.	
SC	AL	US- 3,554,767	01/1971	Daum et al.	
SC	AM	US- 3,554,768	01/1971	Feldman	
SC	AN	US- 3,620,776	11/1971	Mishkin et al.	
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SC	AP	US- 3,764,716	10/1973	Rainwala et al.	
SC	AQ	US- 3,971,852	07/1976	Brenner et al.	
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SC	AS	US- 4,157,386	06/1979	La Rochelle	
SC	AT	US- 4,294,624	06/1981	Veltman	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
SC	BU	DE 2415159	09/1975		
SC	BV	WO 86/00336	01/16/1986		
SC	BW	EP 0140489	05/08/1985		
SC	BX	WO 87/00196	01/15/1987		
SC	BY	EP 0111216	06/20/1984		
SC	BZ	WO 87/05300	09/11/1987		
SC	CA	WO 86/04095	07/17/1986		
SC	CB	WO 90/05182	05/17/1990		
SC	CC	EP 0229810	07/29/1987		
SC	CD	EP 0297887	01/04/1989		

Examiner Signature	<i>Morris B. Miller</i>	Date Considered	6-26-03
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Sheet 2 of 3

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Application Number	10/072,604
Filing Date	02/08/2002
First Named Inventor	Felix Franks et al.
Art Unit	1651
Examiner Name	Unknown
Attorney Docket Number	0022.11

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U.S. PATENT DOCUMENTS

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		Number - Kind Code ² (if known)			
SL	AU	US-4,372,942	02/1983	Cimiluca	
SL	AV	US-4,423,079	12/27/1983	Kline	
SL	AW	US-4,423,086	12/1983	Davos et al.	
SL	AX	US-4,533,552	08/06/1985	Kawamata	
SL	AY	US-4,551,329	11/1985	Harris et al.	
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SL	BD	US-4,753,790	06/1988	Silva et al.	
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SL	BF	US-4,820,534	04/11/1989	Salieb	
SL	BG	US-4,830,858	05/1989	Payne et al.	
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SL	BI	US-4,849,225	07/1989	Mitsuhashi et al.	
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SL	CE	WO 89/06542	07/27/1989			
SL	CF	EP 244771	03/29/1989			
SL	CG	EP 0366303	05/02/1990			
SL	EP	0383569	08/22/1990			
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SL	CJ	BE 902257	08/1985			
SL	CK	DE 161072	09/1984			
SL	CL	ES 8403520	06/1984			
SL	CM	DE 3141498	04/1983			
SL	CN	RU 883174	11/1981			

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Date Considered

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		Application Number	10/072,604
		Filing Date	02/08/2002
		First Named Inventor	Felix Franks et al.
		Art Unit	1651
		Examiner Name	Unknown
Sheet	3	of	3
		Attorney Docket Number	0022.11

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		Country Code ³	Number ⁴ -Kind Code ⁵ (if known)			
SC	CO	JP	095885	06/1984		
SC	CP	DE	1812574	06/1970		
SC	CQ	EP	252750	01/1988		
SC	CR	EP	223221	03/1989		
	CS	EP	344771	03/1989		
SL	CT	DE	159826	03/1972		
SL	CU	JP	7012153	01/1970		
SC	CV	WO	8600336	01/1986		
SC	CW	GB	1288094	09/1972		
SC	CX	GB	147775	06/1977		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

Complete if Known

Application Number	10/072,604
Filing Date	02/08/2002
First Named Inventor	Felix Franks et al.
Group Art Unit	1651
Examiner Name	Unknown
Attorney Docket Number	0022.11

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
SL	1	TOWNSEND ET AL., "Use of Lyoprotectants in the Freeze-Drying of a Model Protein, Ribonuclease," J. of Parenteral Sci. & Technol, Vol. 42, p. 190-199, (1988)
SL	2	J.M. FLINK, "Structure and Structure Transitions in Dried Carbohydrate Materials," Physical Properties of Foods, p. 473-521, (1983)
SL	3	B.L. HERRINGTON, "Some Physico-Chemical Properties of Lactose," J. Dairy Science, Vol. 17, p. 501-519, (1934)
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SL	7	KAUZMANN, "The Nature of the Glassy State and the Behavior of Liquids at Low Temperatures," Chem. Rev., Vol. 43, p. 219-227, (1948)
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SL	9	J.F. CARPENTER ET AL., "Stabilization of Phosphofructokinase during Air-Drying with Sugars and Sugar/Transiton Metal Mixtures," Cryobiology, Vol. 24, p. 455-464, (1987)
SL	10	Z. SCHNEIDER ET AL., "Thermostability of Enzyme in the Three-dimensional Network of Polysaccharide Chains," Polonaise des Sciences, Vol. XV1.4, p. 203-204, (1968)
		M.J. VAN DE BEEK ET AL., "Preservation of the Enzymatic Activity of Rennin during Spray Drying and During Storage, and the Effect of Sugars and Certain Other Additives," Neth Milk Dairy J., Vol. 23, p. 46-5, (1969)
	11	

Examiner
Signature*Howard, Jr.*Date
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6-26-03

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Sheet

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SC	12	ARTHUR AND ELIZABETH ROSE, "The Condense Chemical Dictionary, Seventh Edition," Reinhold Publishing Corp., p. 448, (1961)	
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	19	PRODUCTION, "Production of Trichalose Dried Eggs," Quadrant Experimental Data	
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SC	22	SLADE ET AL., "Non-Equilibrium Behaviors of Small Carbohydrate Water Systems," Pure and Applied Chem., Vol. 60, p. 1841-1864, 1988	

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Signature*Amelia D. P. Doe*Date
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Sheet 3 of 6

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Application Number	10/072,604
Filing Date	02/08/2002
First Named Inventor	Felix Franks et al.
Group Art Unit	1651
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Attorney Docket Number	0022.11

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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SC	23	HATLEY ET AL., "Process Biochemistry," p. 169-172, 1987
SC	24	"The Effect of Sugars on the Thermal Denaturation of Lyszyme H7H," Uedaira Bull. Chem. Soc., Vol. 53, p. 2451, (1980)
SC	25	J.F. CARPENTER ET AL., "Modes of Stabilization of a Protein by Organic Solutes during Desiccation," Dept. of Zoology, UC Davis, CA Cryobiology, Vol. 25, p. 459-470, (1988)
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SC	28	SCHNEIDER ET AL., "Bulleting DeL'Academie Polonaise des Sciences," 2nd ed., (1968), pages 203 & 204
	29	OKURA SEIYAKU, "Abstract," Japanese Patents Gazette - Week 8604
	30	FUJI SIEU, "Abstract," Japanese Patents Gazette - Week 8750 - Section Chemical J6-2255-434-A, 1988
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SC	32	GENDLER ET AL., "J. of Medicinal Chem," p. 33-38, (1980) 1981
	33	DRYTEC, "Leaflet entitled "Compact Laboratory Dryer,"

Examiner Signature

Howard Lee

Date Considered

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	34	BROCHURE, "by Lab Plant Ltd. entitled "SD-04 Laboratory Scale Spray Drier."
SC	35	MALIK, "J. Microbiology Methods," p. 125-132, (1990)
SC	36	CHOPIN, "Can J. of Microbiology," p. 716-20, (1977)
SC	37	TERTYSHRY ET AL., "Microbiology J., p. 49-52, (1988)
→ C	38	A.T.P. SKRABANAJA ET AL., "Lyophilization of Biotechnology Products," PDA Journal, Vol. 48-6, p. 311-317, (1994)
	39	"Permazyme Technology," Permazyme leaflet
SC	40	ROSER, "BioPharm," Biopharm, p. 49-53, September 1991
SC	41	PIKAL ET AL., "Developments in Biological Standardization," International Symposium on Biological Product Freeze-Drying and Formulation Bethesda, USA, Vol. 74, p. 165-170, (1991)
	42	"Ready-To-To™ DNA Labeling Kit," Promotional Lecture
	43	"Analoxo®," Promotional Lecture
	44	"Ready To-To™ Kits for a Broad Range of Techniques in Molecular Biology, Designed for results - not surprises," Promotional Lecture

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Signature*Monica Jil*Date
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	45	PSYCHROMETRIC CHART
SC	46	GREEN AND ANGEIL, " " J. Phys. Chem., Vol. 89, p. 2880, (1989)
SC	47	LEVINE ET AL., "Another View of Trehalose for Drying and Stabilizing Biological Materials," BioPharm, (1992)
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	49	V. NAINI ET AL., "Physical Characterization of Spray Dried Sugars Suitable As Carriers in Inhalation Systems," Aerosol Research Group, Poster at Tenth Annual AAPPS, Miami, FL-PT6180
	50	ROOS, Carbohydrate Research, Vol. 238, p. 38-49, (1993)
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SC	52	KIM ET AL., " " J. Food Science, p. 1009-1010 & 1048, (1990) <i>vol. 55</i>
	53	PRAJAPATI ET AL., " " Aust. J. Dairy Technology, p. 17-21, March / June 1987
SC	54	LABUZA ET AL., "Biotechnology & Bioengineering," Vol. XII, p. 135-140, (1970)
SC	55	JOSIC, "Lebenson," Wiss U. Technol., Vol. 15, p. 5-14, (1982)

Examiner
Signature*Norma D. Lee*Date
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First Named Inventor	Felix Franks et al.
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Examiner Name	Unknown
Attorney Docket Number	0022.11

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
SC	56	ABD EL - GAWAL ET AL., "Egyptian J. Dairy Sci., Vol. 17, p. 273-281, (1989)
SC	57	PERI ET AL., "Lebenson," Wiss U. Technol., Vol. 7, p. 76-81, (1974)
SC	58	IIJIMA ET AL., "Cryobiology, p. 211-222, (1958)
SC	59	ANNEAR, "Austral," J. Exp. Biol., Vol. 36, p. 211-222, (1958)
SC	60	G.W. WHITE ET AL., "J. Fd. Technol., p. 73-82, (1966)
SC	61	VANDER BEEK ET AL., "Netherlands Dairy Milk J., p. 46, August 17, 1969
X	62	HERRINGTON, "J. of Dairy Science, p. 501-518, (1934)
X	63	UEDAIRA ET AL., "Bulletin of the Chem. Soc. of JP, Vol. 53, p. 2451-5, (1980)
SC	64	Chemical Abstract CA 93(23): 219324n 1980
SC	65	Chemical Abstract CA 106(14): 10356-76 1987
SC	66	LEVINE ET AL. "Principles of "Cryostabilization" Technology from Structure/Property Relationships of Carbohydrate/Water Systems - A Review," Cryoletters, p. 21-63

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